



ORIGINAL CATALOG | 2021



WWW.**SMARTPROGLASS**.COM

	SMARTPRO GLASS LIST
2	WHAT IS SMARTPRO GLASS?
4	HOW SMARTPRO GLASS BENEFITS?
6	HOW IT WORKS?
8	SMARTPRO PRODUCTS
10	SELF-ADHESIVE SMART FILM
16	TECHNICAL DATA
18	LAMINATED SMART GLASS
22	WAYS TO CONTROL SMARTPRO GLASS
25	CUSTOMIZE SMARTPRO GLASS
26	SMARTPRO APPLICATIONS
28	OFFICE
30	RESIDENTIAL
32	HEALTHCARE
34	HOTEL
36	RETAIL

WHAT IS **SMARTPRO GLASS?**

SmartPro Glass is an innovative building material made from Polymer Dispersed Liquid Crystal (PDLC) film to create intelligent partitions, windows and skylights. The optical properties of these electrically switchable glasses are able to change when an electric current is applied. Incorporating cutting-edge smart glass technology, SmartPro Glass brings multi-functional space, sleek aesthetic design and privacy on demand. With continuous research and development and also dedicated customer service, we seek to pioneer the future of smart glass innovation and design.



PRIVACY
ON DEMAND
& **SLEEK
AESTHETIC
DESIGN**

HOW SMARTPRO GLASS **BENEFITS?**

PRIVACY ON DEMAND

Less than a second from transparent to opaque

MULTI-FUNCTIONAL FEATURES

Ability to be a multi touch projection screen

LET THERE BE NATURAL LIGHT

Without blocking sun light, privacy is maintained



MAXIMIZE SPACE

Making small offices feel and look spacious

EASIER CLEAN AND MAINTENANCE

Without curtains or blinds, SmartPro glass is easy to keep clean and sterile

SMART HOME ENABLED

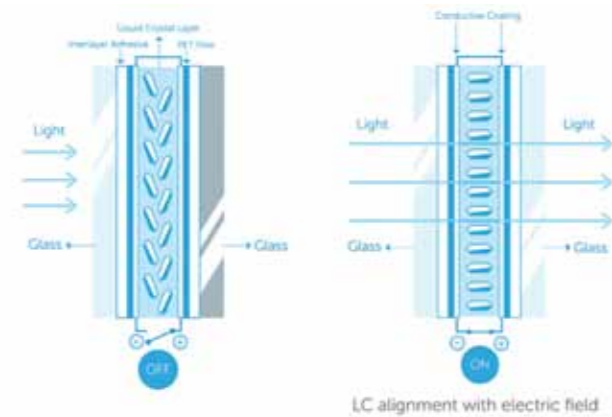
Easily connect SmartPro glass to your smart home panel

OPTIMAL DESIGN

Enables instant privacy, removing extra layer of materials

HOW IT WORKS?

Smart Glass is the name of glasses which the PDLC film is incorporated to the glass. This film can be attached to already installed glass or being laminated to create laminated smart glass. Polymer Dispersed Liquid Crystal (PDLC) consists of micron sized droplets of liquid crystal dispersed in an optically isotropic polymer matrix. This smart film can be electrically switched from a light-scattering or opaque "off state" to a non-scattering or transparent "on state". In the "off state", Smart film/Privacy film appears milky white due to the refractive index mismatch encountered by incoming light at the liquid crystal/polymer interface.



SMARTPRO PRODUCTS

- SELF-ADHESIVE SMART FILM
- LAMINATED SMART GLASS



SELF-ADHESIVE
SMART FILM



ON OFF



GREAT
SOLUTION
FOR **SMART
OFFICES**

DESIGNED TO RETROFIT TO
EXISTING TRANSPARENT
SURFACES, SMARTPRO
SELF-ADHESIVE PDLC FILM
PROVIDES
**A SIMPLE AND COST
EFFECTIVE SMART
SOLUTION.**

RETRO FIT

Apply SmartPro self-adhesive smart film to traditional glass installations and avoid a full glass panel replacement.

COMPLETELY CUSTOMIZEABLE

SmartPro films are tailor-made to match width, length, and shape necessary for your project.

QUICK AND EASY TO APPLY

No need for lamination process and current glass replacement, SmartPro film is the quickest way to have switchable glass.





ULTRA CLARITY - MORE THAN

82%

LIGHT TRANSMITTANCE RATE

VERY LOW HAZE - LESS THAN

5%

ANTI UV - BLOCK

99%

OF HARMFUL ULTRA VIOLET WAVE

TECHNICAL DATA

Item	Specification	
Color	White	
Thickness	0.5 mm	
Total light transmittance	ON > 82%	OFF > 55%
Haze	ON < 3%	OFF > 95%
Minimum privacy distance	3cm (switch off)	
Operating Temperature	- 20 to 70 (°C)	
Storage Temperature	20~30°C, 60 - 70% RH Humidity	
Rated Voltage	45V - 60V (AC,50/60 Hz)	
Energy Consumption	< 4W/sq.m	
Viewing Angle	>170°	
Response Time	<45ms	
Working life	>80,000 hours	
Switching times	>2,000,000	



LAMINATED SMART GLASS



ON OFF



IDEAL
PRODUCT FOR
DIFFERENT
TYPES OF
ENVIRONMENT

THE LAMINTED SMARTPRO GLASS IS A LAMINATED GLASS PANEL WITH A POLYMER DISPERSED LIQUID CRYSTAL INTERLAYER FILM (PDLC). IT OFFERS **INSTANT PRIVACY AT THE FLICK OF A SWITCH** BY CHANGING ITS STATE FROM TRANSPARENT TO OPAQUE AND VICE VERSA THROUGH A SMALL ELECTRICAL CURRENT.

ENJOY NATURAL SUNLIGHT

Enabling instant privacy on demand

REDUCE ENERGY COSTS

Helping to minimize carbon foot print

DURABLE SMART GLASS

Suitable for outdoor and wet environments



WAYS TO **CONTROL** SMARTPRO GLASS



REMOTE CONTROL



WALL SWITCH



SENSOR



TIMER



HOME
AUTOMATION





BULLET PROOF



LOW IRON



COLOR TINTED



DOUBLE GLAZED



CUSTOM SHAPES



FIRE RATED

CUSTOMIZE SMARTPRO GLASS

SMARTPRO APPLICATIONS

- OFFICE
- RESIDENTIAL
- HEALTHCARE
- HOTEL
- RETAIL





OFFICE

Transferring private conference rooms into open office, SmartPro glass offers multi-functional features for corporate offices.

CEO ROOM

CONFERENCE ROOM

PROJECTION SCREEN

LOBBY



PRIVATE
CONFERENCE
ROOM INTO
OPEN OFFICE

RESIDENTIAL

By applying SmartPro glass on windows, skylight and en-suite bathrooms, bring smart life into your home.

EN-SUITE BATHROOMS

WINDOWS

POOL

GYM



HEALTHCARE

As an optimal solution for medical centers, SmartPro glass can reduce the transmission of trapped bacteria and viruses in curtains and blinds.

- ICU/CCU
- DENTAL CLINICS
- SURGICAL ROOMS



THE BEST
WAY TO
**CARE FOR
PATIENTS**



HOTELS

Replacing traditional walls with SmartPro glass, rooms can benefit from natural sunlight while guests feel more spacious rooms.

BATHROOM

GYM

SWIMMING POOL

CONFERENCE ROOM



OPEN ATMOSPHERE FOR
YOUR GUESTS

RETAIL

Turning from opaque to transparent state, SmartPro glass brings privacy in less than a second for stores who need instant privacy.

JEWELLERY SHOPS

SPA & BEAUTY SALONS

PROJECTION SCREENS



WITH
SMARTPRO
GLASS, FEEL
THE **LUXURY**
AND MAKE
YOUR SPACES
UNIQUE AND
SMARTER.



**SMART GLASS
TECHNOLOGY,**
BEYOND THE
FUTURE



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